Title (en)

SYSTEMS AND METHODS FOR INTERPOLATION IN SYSTEMS WITH NON-LINEAR QUANTIZATION

Title (de)

SYSTEME UND VERFAHREN ZUR INTERPOLATION IN SYSTEMEN MIT NICHTLINEARER QUANTISIERUNG

Title (fr)

SYSTÈMES ET PROCÉDÉS D'INTERPOLATION DANS DES SYSTÈMES À QUANTIFICATION NON LINÉAIRE

Publication

**EP 3475725 A2 20190501 (EN)**

Application

**EP 17739788 A 20170627**

Priority

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- US 2017039510 W 20170627

Abstract (en)

[origin: WO2018005498A2] Various aspects and examples are directed to methods and systems for interpolation in systems that execute non-linear quantization routines. Particular aspects of the methods described herein include a method of detecting a Radar Cross Section (RCS) and a method of detecting patient injuries. In one example, a method of detecting RCS includes receiving a sequence of samples at a re-visit rate of a radar antenna, the sequence of samples being based on electromagnetic energy reflected from a target, interpolating a model curve to the sequence of samples, where each sample of the sequence of samples geometrically increases in value relative to a previous sample of the sequence of samples, comparing the model curve to a calibrated curve and determining a shift between the model curve and the calibrated curve based on the comparison, and detecting a RCS based on the shift between the model curve and the calibrated curve.

IPC 8 full level

**G01S 7/41** (2006.01)

CPC (source: EP US)

**C12Q 1/6851** (2013.01 - US); **G01S 7/41** (2013.01 - EP US); **G16B 20/00** (2019.01 - EP); **G16H 50/20** (2017.12 - EP); **G16H 50/30** (2017.12 - US); **G16H 50/50** (2017.12 - EP); G06F 17/11 (2013.01 - US)

Citation (search report)

See references of WO 2018005498A2

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Designated extension state (EPC)

BA ME

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**WO 2018005498 A2 20180104**; **WO 2018005498 A3 20180322**; EP 3475725 A2 20190501; EP 3475725 B1 20200610; US 2019385746 A1 20191219

DOCDB simple family (application)

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